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PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/749,770		12/30/2003	Lucio Andrade-Cetto	MWS-097	1054
959	7590	10/14/2005		EXAMINER	
LAHIVE & 28 STATE S		TELD, LLP.		BUI, BRYAN	
BOSTON, MA 02109				ART UNIT	PAPER NUMBER
				2863	
				DATE MAILED: 10/14/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Comments	10/749,770	ANDRADE-CETTO, LUCIO					
Office Action Summary	Examiner	Art Unit					
	Bryan Bui	2863					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 9/8/0	05.						
2a) This action is FINAL . 2b) ☐ This	s action is non-final.						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under I	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>1-40</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-16 and 23-38</u> is/are allowed.	☑ Claim(s) <u>1-16 and 23-38</u> is/are allowed.						
6)⊠ Claim(s) <u>17,22,39 and 40</u> is/are rejected.	Claim(s) <u>17,22,39 and 40</u> is/are rejected.						
7)⊠ Claim(s) <u>18-21</u> is/are objected to.	• • • • • • • • • • • • • • • • • • • •						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examine							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage					
Attachment(s)	N □ hate = is 0	v (PTO 412)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D	Date					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)					

Art Unit: 2863

- 1. Applicant papers filed on 9/8/2005 have been received and entered. Claims 1, 3-5, 23, 25-27 have been amended. Claims 39-40 have been added. Claims 1-40 are pending in the application.
- 2. Applicant's remark has been considered, but it is meet under new ground of the rejections.
- 3. The indicated allowability of claims 17-22 in the previous office action is withdrawn in view of the newly discovered reference(s) to Toll, Lawrence R. et al (US20020146724) in paragraphs 0148-0149 to indicates user interface to display the result (e.g. protein in three dimensional topology), and paragraphs 0067&0074 indicates the implementation for three dimensional of the probability data from the Markov model. Rejections as follow.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17, 22, and 39-40 are rejected under 35 U.S.C. 102(b) as being anticipated by Toll, Lawrence R et al (US 20020146724), hereinafter Toll.

Toll teaches method, software and system using a Hidden Markov Model having visualization process including probabilities of the occurrence events (figures 1 &7)

including data structure holding a representation of a hidden markov model, and populating (providing of) the markov model data with at least transition probability and emission probability (paragraph 0081); (user interface) displaying three dimensions of the probability data from the markov model (paragraphs 0148-0149 and 0067, 0074).

Allowable Subject Matter

5. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-16 and 23-38 are indicated allowed over the prior art of record.

Claims 18-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan Bui whose telephone number is 571-272-2271.

The examiner can normally be reached on M-Th from 7am-4pm, and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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BB

10/12/2005

BRYAN BUI PRIMARY EXAMINER